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中国苔草属的新分类群(Ⅱ)*

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New taxa of *Carex* L. (Cyperaceae) from China(Ⅱ)

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Key words *Carex*; New taxa; China
关键词 苔草属; 新分类群; 中国

1 高山苔草 新种 图1:5～8

Carex pseudosupina Y. C. Tang, in herb., sp. nov. Fig. 1:5～8

Species *C. supinae* Wahlenb. affinis, differt utriculis suberectis demum oblique patentibus nec divaricatis squamis brevioribus 2～2.2 mm longis pallide viridi-flavis demum partibus dilute brunnescentibus apice in rostrum brevissimum contractis.

Rhizoma stolones longos vaginis fuscis aphyllis obtectos emittens. Culmi caespitosi, 5～8 cm alti, triquetri, inferne laeves, superne ad angulos scabri, basi vaginis paucis flavido-fuscis vel rubro-fuscis aphyllis demum in fibras fissis obtecti. Folia culmos paullo superantia vel eis breviora, 0.5～1 mm lata, gracilia, plana vel marginibus paullo revoluta, supra et marginibus scabra; vaginae lateraibus membranaceae saepe fissae. Bracteae squamiformes, lanceolatae, apice aristatae, flavido-fuscae, evaginantes. Spiculae 2～3 approximatae, terminalis ♂ lanceolata, 7～8 mm longa, sessilis, laterales ♀ late ovatae vel subglobosae, 5～6 mm longae, pauci- et densiflorae, sessiles. Squamae ♂ lanceolatae, 4 mm longae, apice acutae, fuscae, marginibus pallide flavo-albae, 1-costatae, ♀ ellipticae vel elliptico-ovatae, 3 mm longae, apice acutae vel obtusae, rubro-fuscae, marginibus superne albo-hyalinae, 1-costatae. Utriculi suberecti vel oblique patentes, squamis breviores, late obovatae vel obovatae, obtuse trigoni, 2～2.2 mm longi, coriacei, pallide viridi-flavi vel partibus dilute brunnescentes, nitidi, glabri, enervii, basi cuneati, apice in rostrum breve ore membranaceum truncatum abrupte contracti. Nux arcte inclusa, late obovata, trigona, 1.5 mm longa, brunnea. Stylus basi incrassatus, persistens. Stigmata 3.

Sichuan(四川): Kangding(康定), Haizishan(海子山), alt. 3700 m, 1934-08-28, C. S. Liu(刘振书)1389(holotype, PE).

本种与 *Carex supina* Wahlenb. 比较相似,但果囊成熟时为斜展,短于鳞片,长2～2.2 mm,淡黄绿色,成熟时有的稍带些淡褐黄色,喙很短而明显区别于 *Carex supina* Wahlenb.

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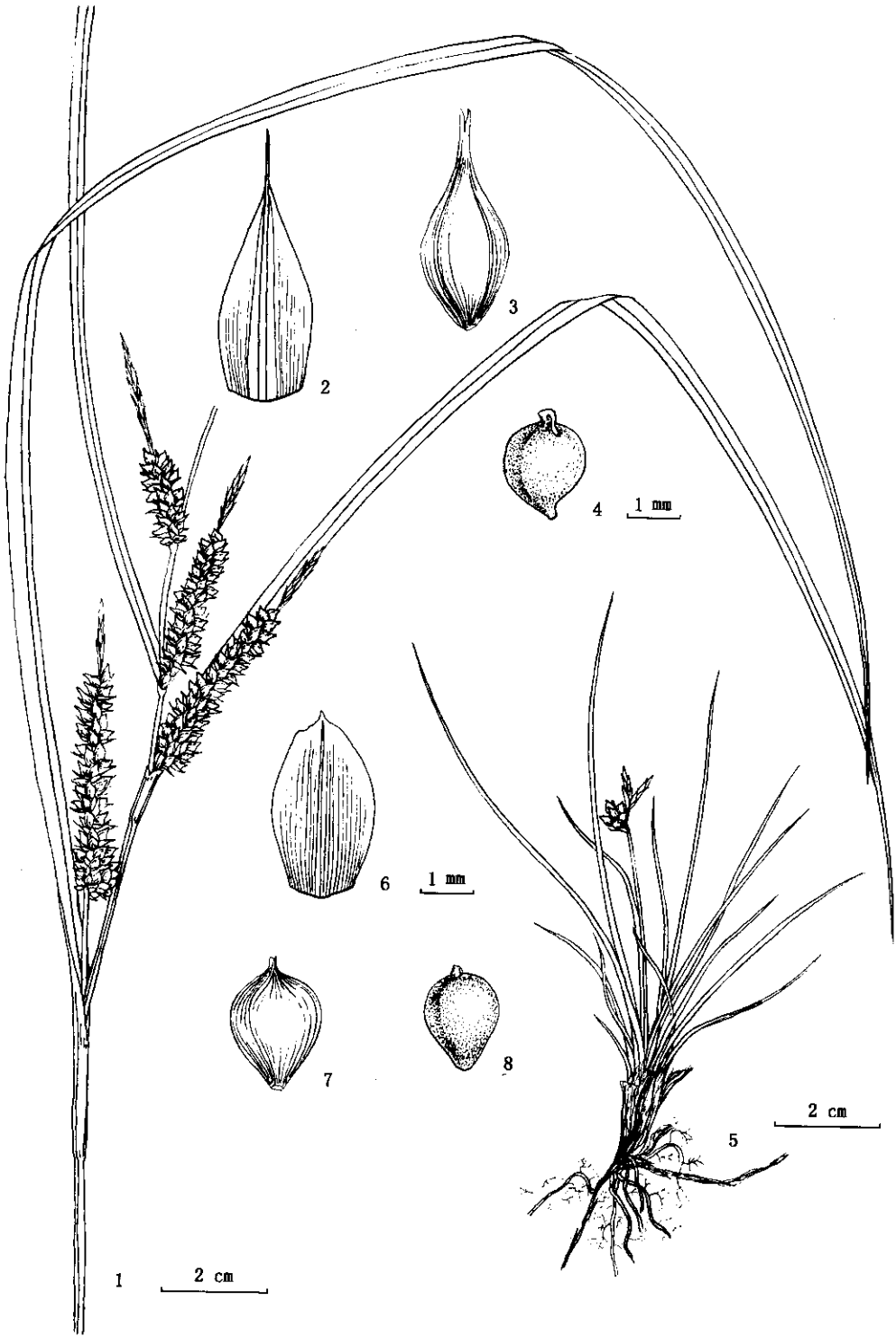

图1 1~4. 文山苔草 1. 小穗；2. 雌花鳞片；3. 果囊；4. 小坚果。5~8. 高山苔草 5. 植株；6. 雌花鳞片；7. 果囊；8. 小坚果。(李爱莉 绘)

Fig. 1 1~4. *Carex wenshanensis* L. K. Dai 1. Spikelet; 2. Scale of pistillate flower; 3. Utricle; 4. Nut. 5~8. *C. pseudosupina* Y. C. Tang 5. Plant; 6. Scale of pistillate flower; 7. Utricle; 8. Nut.

2　文山苔草　新种　图 1:1～4

Carex wenshanensis L. K. Dai, sp. nov. Fig. 1:1～4

Species *C. aristatosquami* Tang et Wang ex L. K. Dai affinis, differt culmis sparsis subvalidis, basi vaginis usque ad 15 cm longis obtectis, spiculis ♀ 2～5 cm longis 8 mm latis basi interdum ramosis, utriculis ferrugineo-punctulatis.

Rhizoma abbreviatum, stolones longos emittens. Culmi sparsi, 50～60 cm alti, subvalidi, obtuse triquetri, laeves, basi vaginis longis fuscis obtecti. Folia culmo longiora vel eis aequilonga, 4～5 mm lata, plana, utrinque laevia, marginibus scabra; inferiores vaginae usque ad 12～15 cm longae. Bracteae foliaceae, inferiores vaginantes, superiores 2～3 lineares, breve vaginantes vel evaginantes. Spiculae 7～12 androgynae (pars ♂ cum ea ♀ multo brevior) vel inferiores ♀ cylindricae vel oblongo-cylindricae, 2～5 cm longae, 8 mm latae, basi spiculis ramosis ovatis 8～15 mm longis instructae, inferiores 2 pedunculatae, reliquae sessiles. Squamae ♂ lanceolatae, 3.5～4 mm longae (aristis exclusis), apice acuminatae aristatae, membranaceae, lateribus rubro-fuscae, medio stramineae, trinerviae, ♀ ovatae, 2.5～3 mm longae, apice acutae aristatae, marginibus scabrae, membranaceae, rubro-fuscae, medio stramineae, 1～3-nerviae. Utriculi squamis (aristis exclusis) longiores, subhorizontaliter divaricati, obovati, trigoni, 4 mm longi, membranacei, stramineo-virides ferrugineo-punctulati, glabri, obsolete nervosi, basi cuneati, apice in rostrum 2 mm longum ore breviter bidentatum abrupte contracti. Nux arcte inclusa, late obovata, trigona, 2 mm longa, brunnea, angulis pallide fulva, basi breviter stipitata. Stylus basi vix incrassatus, flexuosus, persistens. Stigmata 3.

Yunnan(云南): Wenshan(文山), Mt. Laojun(老君山), alt. 2400 m, under the evergreen broad-leaved forest on the mountain ridge, 1962-05-17, K. M. Feng(冯国楣)22554 (holotype, K).

本种近似长芒鳞苔草 *Carex aristatosquamis* Tang et Wang ex L. K. Dai,但植株散生,秆较粗壮,基部为长叶鞘所包裹,鞘长可达 15 cm,小穗长 2～5 cm,宽 8 mm(不包括基部分枝小穗);果囊具锈色斑点而明显区别于 *C. aristatosquamis* Tang et Wang ex L. K. Dai.

3　沙坪苔草　新种　图 2:1～5

Carex wui Chü, in herb., sp. nov. Fig. 2:1～5

Species *C. latisquameae* Kom. affinis, differt squamis ♀ ovato-lanceolatis apice aristatis rubro-fuscis laxe hispidis, utriculis late ovatis rubro-fuscis dense hispidis, rostris mediocribus ore profunde bidentatis.

Rhizoma abbreviatum, stolones longos emittens. Culmi 5～100 cm alti, validi, triquetri, dense hispidi, basi vaginis rubiginosis aphyllis obtecti. Folia culmo longiora, 4～8 mm longa, plana, dense hispida; vaginae longae. Bracteae foliaceae, inflorescentiam superantes, dense hispidae, breve vaginantes. Spiculae 4～5, approximatae, terminalis ♂ lineari-cylindrica, 5～7 cm longa, subsessilis, reliquae 3～4 ♀ cylindricae, 2.5～5 cm longae, dense

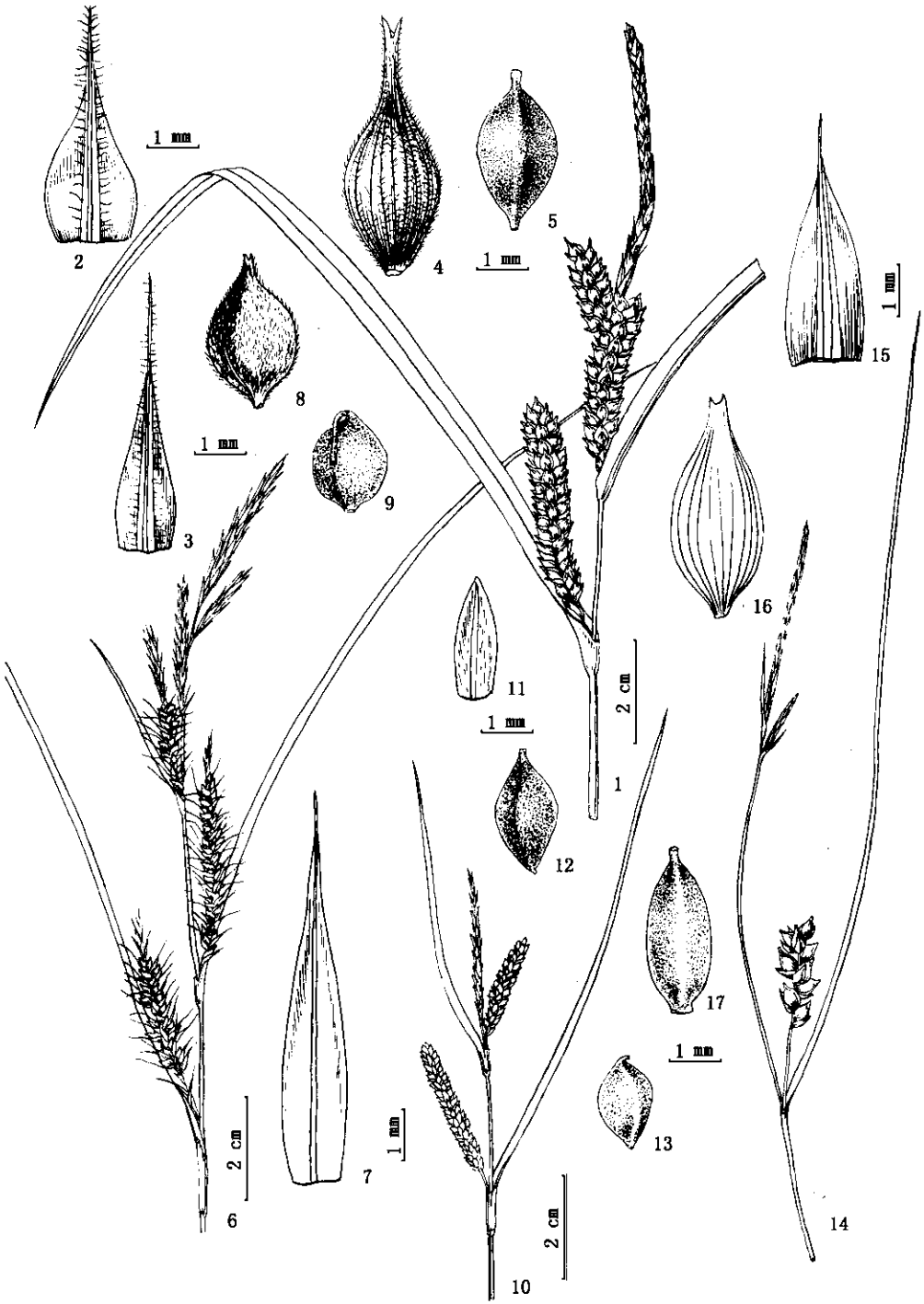

图2 1～5. 沙坪苔草 1.小穗；2～3. 雌花鳞片；4. 果囊；5. 小坚果。6～9. 披针鳞苔草 6. 小穗；7. 雌花鳞片；8.果囊；9. 小坚果。10～13. 狭果囊苔草 10. 小穗；11. 雌花鳞片；12. 果囊；13.小坚果。14～17. 似矮生苔草 14. 小穗；15. 雌花鳞片；16.果囊；17. 小坚果。(李爱莉 绘)

Fig.2 1～5. *C. wui* Chü 1. Spikelet; 2～3. Scale of pistillate flower; 4. Utricle; 5. Nut. 6～9. *C. lancisquamata* L. K. Dai 6. Spikelet; 7. Scale of pistillate flower; 8. Utricle; 9. Nut. 10～13. *C. angustiutricula* Wang et Tang 10. Spikelet; 11. Scale of pistillate flower; 12. Utricle; 13. Nut. 14～17. *C. subpumila* Wang et Tang 14. Spikelet; 15. Scale of pistillate flower; 16. Utricle; 17. Nut.

multiflorae, breviter pedunculatae. Squamae ♂ lanceolatae, 6～7 mm longae, apice acuminatae aristatae, dense hispidae, 3-nerviae, ♀ ovato-lanceolatae, 4～6 mm longae, apice acuminatae aristatae, membranaceae, rubro-fuscae, medio virides, laxe hispidae, 3-nerviae. Utriculi oblique patentes, elliptici vel late ovati, turgido-trigoni, 6～7 mm longi, coriacei, rubro-fusci, plurinervii, hispidi, basi rotundati, apice in rostrum mediocre ore stricte et profunde bidentatum attenuati. Nux laxe inclusa, elliptica vel obovata, trigona, 3 mm longa, mucronata. Stylus basi aequalis. Stigmata 3.

Sichuan(四川): Ebian(峨边), Shaping(沙坪), on moist slope of mountain valley, 1938-07-22, C. L. Wu(吴中伦)10443(holotype, PE); Daxiangling(大相岭), alt. 2000～2850 m, 1928-05-22, Harry Smith 210(PE).

本种近似宽鳞苔草 *Carex latisquamea* Kom.,但雌花鳞片为卵状披针形,顶端渐尖成芒,红褐色,疏被长硬毛;果囊宽卵形,红褐色,密被长硬毛,喙中等长,喙口深裂成两齿而明显区别于宽鳞苔草。

4　披针鳞苔草　新种　图 2:6～9

Carex lancisquamata L. K. Dai, sp. nov. Fig. 2:6～9

Species ex affinitate *C. setigerae* D. Don, differt squamis ♀ lanceolatis 6～8 mm longis longe aristatis, utriculis ellipticis vel late ellipticis, nucibus rotundo-ovatis vel subrotundis.

Rhizoma stolones vaginis purpureo-brunneis obtectos subcrassos et longos emittens. Culmi caespitosi, 40～45 cm alti, graciles, obtuse triquetri, angulis scabri, basi vaginis purpureo-brunneis aphyllis demum reticulatim fissis obtecti. Folia culmo breviora vel paullo longiora, 2～4 mm lata, costis sulcatis, marginibus revoluta, supra et marginibus scabra, vaginantia; vaginae inferiores 5～6 cm longae, purpureo-brunneae. Bracteae foliaceae, inferiores 1～2 inflorescentia longiores, breviter vaginantes, superiores lineares inflorescentia breviores, evaginantes. Spiculae 6～7 approximatae, interdum ima remota, apicales 2～3 ♂ interdum basi floribus pistillatis instructae, 1.5～3 cm longae, subsessiles, reliquae 3～5 ♀ vel androgynae, cylindricae, 4～5 cm longae, densi- et multiflorae, inferiores longe pedunculatae, superiores breviter pedunculatae vel subsessiles. Squamae ♂ lineari-lanceolatae, aristis 1.5～2 mm longis inclusis 8 mm longae, apice attenuatae, membranaceae, lateribus purpureo-brunneae, medio flavidae, 1-costatae, ♀ lanceolatae, 6～8 mm longae, apice attenuatae aristis 2～4 mm longis, membranaceae, lateribus purpureo-brunneae vel flavo-brunneae, medio stramineae, 1-costatae. Utriculi oblique patentes squamis breviores, elliptici, obscure trigoni vel plano-convexi, 3 mm longi, olivacei, basi et rostro paullo rubro-brunnei, dense hispidi, obscure nervati, basi in stipitem brevem abrupte contracti, apice in rostrum mediocre ore subtruncatum vel emarginatum abrupte contracti. Nux arcte inclusa, rotundo-ovata vel suborbicularis, trigona, 2 mm longa, brunnea. Stylus basi aequalis. Stigmata 3.

Yunnan(云南): Dali(大理), alt. 2600 m, by stream side, 1935-05, C. W. Wang(王启无)63097(holotype, PE).

本种与 *Carex setigera* D. Don 较近似，但本种雌花鳞片披针形，长 6～8 mm，顶端具长芒，芒长 2～4 mm；果囊椭圆形或宽椭圆形；小坚果圆卵形或近圆形而明显区别于 *C. setigera* D. Don.

5 狭果囊苔草 新种 图 2:10～13

Carex angustiutricula Wang et Tang, in herb., sp. nov. Fig. 2:10～13

Species ex affinitate *C. maculatae* Boott, differt spiculis ♀ anguste cylindricis, squamis ♀ anguste oblongis muticis 1-costatis, utriculis parvis ovatis, nucibus obovatis flavo-albis basi non stipitatis.

Rhizoma abbreviatum, lignosum, nec stoloniferum. Culmi caespitosi, 30～55 cm alti, obtuse triquetri, paullo graciles, laeves, basi vaginis aphyllis brunneis obtecti. Folia culmo breviora vel paullo longiora, 3～6 mm lata, plana, marginibus superne et costa scabra; vaginae longae. Bracteae foliaceae inflorescentiam superantes, breviter vaginantes. Spiculae 3～4, ima remota, reliquae approximatae, terminalis ⚥ anguste cylindrica, 2.5～5 cm longa, subsessilis, laterales 2～3 ♀ anguste cylindricae, 1.5～3.5 cm longae, multi- et densiflorae, ima longe pedunculata, superiores breviter pedunculatae vel subsessiles. Squamae ⚥ anguste oblongae, 3.5 mm longae, apice obtuse rotundae muticae, membranaceae, flavae breviter rubro-fusco-lineatae et punctulatae, viridi-carinatae. Utriculi squamis paullo longiores, oblique patentes demum subhorizontaliter divaricati, obovati, 2 mm longi, membranacei, flavo-fusci, dense purpureo-papillosi, 5-nervii, basi cuneati vel late cuneati, breve stipitati, apice in rostrum breve ore subtruncatum vel emarginatum attenuati. Nux arcte inclusa, obovata, trigona, 1.5 mm longa, luteolo-alba, apice mucronata recurva. Stylus basi aequalis. Stigmata 3.

Sichuan(四川): Mabian(马边), alt. 1600 m, 1930-05-10, F. T. Wang(汪发缵) 22851(holotype, PE).

本种与近似种 *Carex maculata* Boott 的区别在于雌小穗狭圆柱形；雌花鳞片狭长圆形，顶端无短尖，具 1 条中脉；果囊小，卵形；小尖果倒卵形，微黄白色，基部无柄。

6 似矮生苔草 新种 图 2:14～17

Carex subpumila Tang et Wang in herb., sp. nov. Fig. 2:14～17

Species *C. pumilae* Thunb. affinis, differt squamis ♀ ovatis vel anguste ovatis 3.5～4 mm longis, utriculis anguste ellipticis vel oblongis 5 mm longis paullo impresso-nerviis.

Rhizoma longum repens. Culmi 10～30 cm alti, triquetri, basi vaginis fuscis aphyllis obtecti. Folia culmo longiora, 1.5～2 mm lata, paullo involuta, septato-nodosa, longe vaginantia. Bracteae inferiores foliaceae, inflorescentiam superantes, superiores breves et tenues, breve vaginantes. Spiculae 2～3 approximatae, terminalis ⚥ clavata vel anguste cylindrica, 2～3.5 cm longa, breve pedunculata, laterales 1～2 ♀ oblongae, 8～15 mm longae, 10 mm latae, laxi- et pauciflorae, pedunculatae. Squamae ♀ ovatae vel anguste ovatae, 3.5～4 mm longae, apice attenuatae mucronatae, membranaceae, pallidae, medio viridulae, 3-nerviae. Utriculi squamis longiores, oblique patentes, anguste elliptici vel oblongi, inflato-trigoni,

4～5 mm longi, coriacei, straminei, glabri, impresse 7-nervii basi late cuneati, apice in rostrum paullo latum et breve abrupte contracti. Nux arcte inclusa, anguste elliptica, trigona, 3 mm longa. Stylus basi vix incrassatus, demum deciduus. Stigmata 3.

Herbei(河北): Beidaihe(北戴河), 1931-06-30, K. S. Ho(郝景盛) 1619(holotype, PE); ibid., 1952-06-17, X. Y. Hou(侯学煜)20055A(PE).

本种与矮生苔草 *C. pumila* Thunb. 近似,但雌花鳞片卵形或狭卵形,长 3.5～4 mm;果囊狭椭圆形或长圆形,长 4～5 mm,具微凹陷的脉而区别于矮生苔草。

7　圆坚果苔草　新种　图 3:1～4

Carex orbicularinucis L. K. Dai, sp. nov. Fig.3:1～4

Species *C. longipedi* D. Don affinis, differt spiculis oblongis vel late ovatis 0.8～1.5 cm longis densifloris, squamis ♀ ovatis vel anguste ovatis 3 mm longis, utriculis suborbicularibus 4 mm longis, nucibus late obovatis vel suborbicularibus.

Rhizoma parum elongatum. Culmi laxe caespitosi, 35～55 cm alti, paullo validi, obtuse triquetri, laeves, basi vaginis brunneis aphyllis demum in fibras fissis obtecti. Folia inferiora culmo breviora et superiora culmo longiora, 3～4 mm lata, plana, subrigida, marginibus et costa scabra; vaginae 3～4 cm longae. Bracteae inferiores foliaceae spicula longiores, vaginantes, superiores tenues et breves, breve vaginantes vel evaginantes. Spiculae 3～5 androgynae, superne floribus staminatis parcis, inferne eis pistillatis multis densis instructae, oblongae vel late ovatae, 0.8～1.5 cm longae, ima longe pedunculata pedunculo 7 cm longo, superiores 2～3 subsessiles. Squamae ♂ et ♀ ovatae vel anguste ovatae, 3 mm longae, apice acuminatae mucronatae vel aristatae, membranaceae, pallidae vel paullo flavo-fuscae, 3-viridi-nerviae. Utriculi squamis longiores, suberecti, suborbiculares, plano-convexi, 4 mm longi, membranacei, flavo-virides vel straminei, glabri, 9～13-nervii, basi late cuneati, apice in rostrum mediocre ore breve bidentatum abrupte contracti. Nux arcte inclusa, late obovata vel suborbicularis, plano-convexa, 2 mm longa, straminea, basi cuneata. Stylus basi incrassatus persistens. Stigmata 3.

Yunnan(云南): Kunming(昆明), Heilongtan(黑龙潭), in the valley or on the grassy slope, 1955-07-25, Kunming Institute of Botany 50894(holotype, K); Jiangchuan(江川), by lake side or on slope, 1975-08-07, B. Y. Qiu(邱炳云)60381(KUN).

本种相似于 *C. longipes* D. Don,但小穗为长圆形或宽卵形,长 0.8～1.5 cm,密生多数花;雌花鳞片卵形或狭卵形,长 3 mm;果囊近圆形,长约 4 mm;小坚果宽倒卵形或近圆形而明显区别于 *C. longipes* D. Don.

8　紫鳞苔草　新种　图 3:5～9

Carex purpureosquamata L. K. Dai, sp. nov. Fig.3:5～9

Species *C. finitimae* Boott affinis, differt spiculis 11～15, apicalibus 1～2 ♂, superioribus 3 (1♂ et 2 ♀) in axilla bracteae fasciculatis, ima singula ♀, squamis ♀ oblongis 5 mm longis purpureo-fuscis, utriculis oblanceolatis 7～8 mm longis, rostris 3～3.5 longis.

图3 1~4. 圆坚果苔草 1.植株；2. 雌花鳞片；3. 果囊；4. 小坚果。5~9. 紫鳞苔草 5. 小穗；6. 雄花鳞片；7. 雌花鳞片；8.果囊；9. 小坚果。(李爱莉 绘)

Fig.3 1~4. *C. orbicularinucis* L. K. Dai 1. Plant; 2. Scale of pistillate flower; 3. Utricle; 4. Nut. 5~9 *C. purpureosquamata* L. K. Dai 5. Spikelet; 6. Scale of staminate flower; 7. Scale of pistillate flower; 8. Utricle; 9. Nut.

图 4　1～4. 亮果苔草　1. 植株；2. 雌花鳞片；3. 果囊；4. 小坚果。5～8. 双柏苔草　5. 小穗；6. 雌花鳞片；7. 果囊；8. 小坚果。(李爱莉 绘)

Fig. 4　1～4 *C. nitidiutriculata* L. K. Dai　1. Plant; 2. Scale of pistillate flower; 3. Utricle; 4. Nut. 5～8. *C. shanpaensis* L. K. Dai　5. Spikelet; 6. Scale of pistillate flower; 7. Utricle; 8. Nut.

Rhizoma abbreviatum, stolones longos emittens. Culmi caespitosi, 60～65 cm alti, paullo validi, compresso-triquetri, laeves, basi vaginis 2～3 aphyllis obtecti. Folia culmo breviora, 4～7 mm lata, supra nervis lateralibus 2 prominentibus, utrinque laevia, marginibus superne scabra, vagina ima usque ad 8 cm longa. Bracteae foliaceae spiculis longiores, marginibus et supra scabrae, vaginantes. Spiculae 11～15, apicales 2 ♂, superiores 3 (1♂ et 2 ♀) in axilla bracteae fasciculatae, ima singula ♀, spiculae ♂ lineares, 3.5～5.5 mm longae, pedunculis gracilibus et longis, ♀ anguste cylindricae vel oblongae, 1.2～6 cm longae, laxe 10～24-florae; pedunculi superiores sensim breves, imus usque ad 12 cm longus. Squamae ♂ anguste lanceolatae, 7～8 mm longae, apice obtusae mucronatae vel muticae, membranaceae, fuscae, marginibus luteolae, 1-costatae, ♀ oblongae, 5 mm longae, apice obtuse rotundae muticae, membranaceae, fuscae, marginibus luteolae, 1-costatae. Utriculi squamis longiores, suberecti, oblanceolati, obtuse trigoni, 7～8 mm longi, cineraceo-virides, inferne paullo bruneoli, nervis lateralibus 2 prominentibus, basi in stipitem brevem attenuati, apice in rostrum 3～3.5 mm longum ore truncatum vel emarginatum attenuati. Nux arcte inclusa, elliptica, trigona, 2 mm longa, brunnea, apice mucronata. Stigmata 3.

Yunnan(云南): Bijiang(碧江), alt. 3200 m, in thick grass along of roadside, 1978-07-15, Bijiang Exped.(碧江队)1167(holotype, K).

本种与亮绿苔草 *C. finitima* Boott 近似,但小穗较多,11～15 个,最下面的小穗为雌小穗,单生,上面的常 3 个(1 个雄小穗和 2 个雌小穗)簇生于同一苞片腋,顶端 1～2 个为雄小穗;雌花鳞片长圆形,长 5 mm,紫褐色;果囊倒披针形,长 7～8 mm,具长 3～3.5 mm 的长喙而明显区别于 *C. finitima* Boott.

9 亮果苔草 新种 图 4:1～4

Carex nitidiutriculata L. K. Dai, sp. nov. Fig.4:1～4

Species ex affinitate *C. spachianae* Boott, differt squamis ♀ ovatis 2.5 mm longis, utriculis 6～7 mm longis nitidis non purpureo-punctulatis dorso 7-nerviis, nucibus luteolis.

Rhizoma subtenue, lignosum, radicellas multas et longas emittens. Culmi caespitosi, 25～70 cm alti, triquetri, laeves, basi vaginis rubro-fuscis aphyllis vel brachyphyllis obtecti. Folia basilaria culmo breviora vel paullo longiora, 3～5 mm lata, nervis lateralibus 2 prominentibus, utrinque laevia, marginibus superne sursum serrata; vaginae rubro-fuscae, lateribus membranaceae saepe fissae. Bracteae spiculam superantes, foliaceae, vaginantes. Spiculae 5～8, apicales 1～2 ♂ oblongae vel anguste cylindricae, 1～3 cm longae, caeterae androgynae(pars ♂ brevior quam ea ♀) cylindricae vel lanceolatae, (1.5～)3～6 cm longae, multi- et densiflorae, pedunculatae. Pedunculi superiores sensim breves, imus 5～10 cm longus. Squamae ♂ ovato-lanceolatae, 3.5～4 mm longae, apice acutae mucronatae, membranaceae, pallide fuscae, 3-nerviae, ♀ ovatae, aristis exclusis 2.5 mm longae, apice mucronatae vel aristatae, membranaceae, pallide fuscae, medio cineraceo-virides, 3-nerviae. Utriculi squamis multo longiores, oblique patentes, elliptici vel obovato-elliptici, obtuse

trigoni vel plano-convexi, 6～7 mm longi, crasse chartacei, luteolo-virides, basi pallide fusci, nitidi, dorso 7-nervii, basi cuneati breviter stipitati, apice in rostrum longum ore bidentatum abrupte contracti. Nux arcte inclusa, obovato-elliptica, trigona, 2 mm longa, luteola, basi stipitata, apice mucronata. Stigmata 3.

Yunnan(云南): Shizong(师宗), alt. 2000 m, under forest on slope, 1977-04-26, Shizong Exped.(师宗队)218(holotype, PE); Fumin(富民), Qingshuihe(清水河), alt. 2300 m, in moist place, 1964-05-21, by stream side or field side, B. Y. Qiu(邱炳云)57005; Kunming(昆明), Qiongzhusi(筇竹寺), by ditch side, 1957-04-25, B. Y. Qiu 54476 (KUN).

本种与广东苔草 *Carex spachiana* Boott 近似,但雌花鳞片卵形,长 2.5 mm,果囊较大;长 6～7 mm,具光泽,无紫色斑点;小坚果淡黄色而区别于 *Carex spachiana* Boott.

10　双柏苔草　新种　图 4:5～8

Carex shuangbaiensis L. K. Dai, sp. nov. Fig.4:5～8

Species ex affinitate *C. neopolycephalae* Tang et Wang ex L. K. Dai, differt spiculis 10～15, 2.5～4 cm longis in paniculam angustam et longam dispositis, utriculis squamis longioribus basi breve stipitatis apice in rostrum breve et paullo recurvum abrupte contractis.

Rhizoma abbreviatum lignosum. Culmi ca. 75 cm alti, obtuse triquetri, laeves. Folia basilaria et caulina culmo breviora vel ei aequilonga, 3～6 mm lata, plana, marginibus superne scabra; vaginae longae, pallide fuscae, lateribus membranaceae saepe fissae. Bracteae inferiores foliaceae, speriores lineares, vaginantes, vaginae ima 3 cm longa, superne sensim breves. Spicae 4～5, in paniculam angustam et longam dispositae; spiculae ± 15(3～4 spiculae in spicam dispositae), androgynae (pars ♂ parte ♀ multo brevior), cylindricae,(1)2.5～4 cm longae, breve pedunculatae vel subsessiles. Squamae ♂ lanceolatae, 3.5 mm longae, apice acutae mucronatae, membranaceae, pallide fulvae, 1-costatae, ♀ ovatae, 2～2.5 mm longae, apice acutae mucronatae, membranaceae, pallide fulvae, 1-viridi-costatae. Utriculi squamas superantes, oblique patentes, obovato-elliptici, trigoni, 3.5 mm longi, membranacei, straminei, dorso 3-nervii, basi breve stipitati, apice in rostrum breve et paullo recurvum ore breve bidentatum abrupte contracti. Nux arcte inclusa, elliptica, trigona, 2 mm longa, pallide fulva, apice mucronata. Stigmata 3.

Yunnan(云南): Shuangbai(双柏), alt. 2000 m, in the woods, 1934-10-21, H. T. Tsai(蔡希陶)58894(holotype, K).

本种近似新多穗苔草 *Carex neopolycephala* Tang et Wang ex L. K. Dai,但本种是由十几个小穗组成的狭长圆锥花序,小穗长 2.5～4 cm,果囊长于鳞片,具短柄,喙短稍弯而明显区别于 *C. neopolycephala* Tang et Wang ex L. K. Dai.

11　宽叶亲族苔草　新变种

Carex gentilis Franch. var. **intermedia** Tang et Wang, in herb., var. nov.

A var. *gentili* differt foliis 4.5 mm latis, utriculis 3 mm longis, apice paullo longius rostratis, rostro longitudine 1/3 utriculi partem aequante.

Sichuan(四川): Chengkou(城口), alt. 1400 m, 1958-12-02, T. L. Dai(戴天伦) 104274(holotype, PE).

本变种与亲族苔草 *Carex gentilis* Franch.(原变种)的区别为叶宽达 4.5 mm; 果囊长约 3 mm,喙稍长,约为果囊的三分之一。

12 大果亲族苔草 新变种

Carex gentilis Franch. var **macrocarpa** Tang et Wang, in herb., var. nov.

A var *gentili* differt foliis 1~1.5 mm latis, utriculis 3~4 mm longis.

Sichuan(四川): Chengkou(城口), alt. 1450 m, in grassland, 1958-08-08, T. L. Dia (戴天伦)105939(holotype, PE).

本变种与亲族苔草的区别为叶很狭,宽 1~1.5 mm;果囊长 3~4 mm。

《植物分类学报》参考文献引证格式

例 1: WANG F-X(王发详), LIANG H-B(梁惠波), 1996. Cycads in China. Guangzhou: Guangdong Sci. & Tech. Press. 3~10

例 2: WU Z-Y(吴征镒), 1979. The regionalization of Chinese Flora. Acta Bot Yunnan(云南植物研究), 1(1): 1~22

例 3: ErdtmanG, translated by Wang F-X, Qian N-F(王伏雄和钱南芬译), 1962. Pollen Morphology and Plant Taxonomy——Angiosperm. Beijing: Science Press. 50~76

例 4: Abell B C, Tagg R C, Push M, 1954. Enzyme catalyzed cellular transamination. In: Round A F. Advances in Enzymology. Vol 2. 3rd ed. New York: Academic Press. 125~147

例 5: Grant V. 1963. Origin of Adaptation. New York: Columbia University Press. 1~5

例 6: Abell B C ,1945. The examination of cell nuclei. Biochem J, 35: 123~126

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